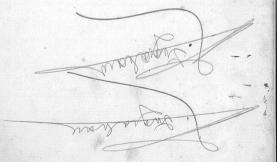


EXPERIMENTAL BAFA

BEINN BEREACH LAEORATORY
ANNEX

BEINN BHREACH LABORATORY
ANNEX



,906 Sat. June 9 B.B. Lab. cells on hand this dale at annex 1700 enty clls. 200 cells in hands covering with 1250 cells covered. 1 Pilot Kili & 20 cells. B.B. Lab. 1906 Saturday June 16 Brought down from lab to annex 1000 cells. Pril' away under table 600 celes. totals cells on hand, this dale 2300 Centry cells
1850 Covered cells
1850 1 Pilot Kili of 20 cells

1906 (monday June 18. B.B. Lab. 4650 4 (25600 4650 65'50 1906 Wednesday BB Lab June 20 wyB

1906 Sel June 23 B.B. Lab. Brought down from Lab to away Put away under table \$ 300 celes covered Total cells on hand this dale 3/00 Emt celes N. F.Br. 2150 Covered cells 1850 2300 1100 300 3 400 2150 300 also , Pilos. Pilit of 20 cells 3100) this date as the Hall.

B , B . L43. 1906 Monday June 25th . E A J , B , B Time one man, cuts and herels sticks for 100 celes Time 11/2 hours do do stamps and completes Tisses for 100 cells 21/4 hours do do assembles 100 cells do do covering 100 " 10 hours 1906 Musday June 24 1.50 × 1:50 makes 25 cells. 1.50 11.00 2.2,5.0 0 a sheet of Japanese Paper. 1.50 m x 1.50 m will cover 25'cells of 25cm cack. 2 (9.7) 4.8 4.83' Long 1.20 he had the con little to lay in an

June 27 th. WALLING LAB 1906 Wednesday Received telegram from CBBadger + Sons Bute Rouging Impossible to ship floats before there weeks from date two weeks from date" B , B . LAB. 1906 thursday June 28 Cells harryl down from Lab to army 400 senty cells P , B , 143. 1906 Ruesday July 3 Moderal Today Shipment of Standard Beading signs moat . 2.43. No 1 Beading "meighti 4000 gms Per 100 onethers 900 2 1/250 100 ".
(No 3 ", 23273" 100 " Everage weight Per metre no 1 = 46 gms no 2 = 112.5 gms On 3 = 232.75 gms the advantages of this beading over the circular shape are: publiker it will fit juside a tetrehedral cell without bending sticks, second that the grove is just deep enough to allow sell sticks to lay in and

1908 hierday July 3 rd. B . B . 1.43 tic closely third: that it can be better fastened gl' intersections fourth. owing to its shape it is much stronger (cubical contents being equal.) 1901 Wednesday July 4th B. metalic corner cells "blata" 300 Centy cells weigh 2987 gins B , B . LA3. average weight if one cell = . 9.9 gms. 300)2987 (9.956 2870 3 /2 300 Covered cells weigh 4140 gms average weight of one cell. 13.8 gms 300) 4140 (13.8 614)

B . P . FA3. 1906 Uhursday July 5 Jana Smary BB. Lab 1906 Monday July 9 M 1000 1000 2000 2000 2010 27/2 gms wood Propellar weight further work done on the mesting total working meight 2895' Saturday July 14 BB. Lab. 1 Piece stel 1 m x 0.035 m x wight 69 gm BB Lab 1906 Triday July 13 Put in stock 100 Cuty cells poser. 1906 Monday July 23 Was ready In flying including head weight 1000 gr 4170

1900 monday July 23 No 2 vionas weights 4260 gram BB Lab. including weeks - at head of 1000 years 1906 Tuesday July 24 BRSalt weight of motor cylender, craws, sheft; & case, 21090 10600 Bels Pully 1317 3 475 fly wheel 9425' 3060 3260 wood stand. 8169 " 21440 350 less punge Induction coil is attemps 39 40 , 2109 Emty tank opiping 25.00 1 46441 8119 1317 3260 3475 50 60 9795 less for averyly breed 9425

1916 Judnesday July W BRJab. on Hand 629 Paper comer cells B.B. Sel Chronday July 30 BMSeb 100 Daper corned Declo weigh - 1463 gm 1906 merage weights \$ 815/ cell. 14.63 100)1463 (14.63

1000 Monkay Day 6 - BB Sab Weight Jahr / Sile 5'734.96 gns 39**2** 14, 83 5734.9 6 1906 hunday lug 7. 

Time Tide started run out 1902 Wednesday Tide started run in 70 000 10 19 / 11.27 11.08 11 48 11.41 12.00 12.48 1.02 1.09 1 . 17 1,13 1.39 1.33 1 . 48 1.41 2,03 2.00 2.24 1.13 2.44 3 . 10 3.06 3 . 21 3.39. 3-28 3.45 Widenday 4.19 4.05 4 . 47 4.35

ang 9 1906 B.B. S. Vy Blue wire Tide started Rum Judg Started Run out 8.13 ann am 8.23 8.36 8.50 9.08 9.17 9.25 9.34 9.46 9.58 10.12 1015 10.17 1027 1052 11.03 11.05 11.14 11.27 11.31 11. 58 Rom 1.16 1.05 1.06 1.16 1.17 1.19 1.32 1,42 1, 46 2.05' 2-33 2.55 3.31 3104 3.35 3.39 3.46 4. 11 4 15 4.39 4.45 4.50

Muriday BBL 28) 3

1906 Fruday aug 10 1 8.13. Jack Red win Blue whe Tide Started Run out Tade Harted run. on 1 10-37 10-40 10-58 10,43 11.06 11.19 11 - 36 11 - 38 11 - 41 11.46 12 - 03 Ru 12.13 Pm 12.16 12.20 12 . 40 12.44 12 - 48 12.51 1 - 12 1.14 1. 16 1 18. 1 - 29 1-30 1-31 meturupted here 1-55 2 , 0 0 2.0 4 2.27 4 025 2.30 2, 5-3 2 , 56 3. 18 3,38 3.45 3,4 8 3.53 3.57 4.02 4.05 4.09 4.13 4.18 4.21 4.25 4.31 4.33

7906 Friday Jug 10 zud Parely 14-Wally Motor speed an min 900 her Appella a 190 . 900 900 240 290 240 190 1906 Sanday and 1 Male Blue win Red wine I se started amon Tide Swipe Run and 4.5 4 Rues 4.35 pm 4.51 Hogy Derg 11tt 1906 D.B. Saturalista July Land July Land James Land James July 2 Land James July Land James July 2 8-26 ann 8.19 ann 8.34 8.30 " 8.45 9.10 9.38 9,36 9.50 9.42 10,12 9.55 10. 40 10 -25 11.06 10. 55 11 . 13 14 .10 11.20 11.17 11 , 41 11,29 12108 11.54 12,39 12,22 12.55 1.09 1. 24 Dolge.

inte stailed le ide started to 1.52 2.26 2.37 2-48 2.52 2,57 3.09 3.18 3.31 3.39 .3.51 4.08 Aline wine uiri Tride, blotted its 8 14 am 4.18 ann 8.33 8.37 8.40 8.55 9,04 9,13 9.27 9.30 9.36 9.41 9. 45 9,48 9,56 10,09 10,19 10.29 10.33 10.36 10.40 10.47 10.55 10.58 11.05 11.08 11.11 11,24 11.39 11.55 11.58 12:00 12,12 12,20 12,22 2.35 12.45 12.58 1 . ~ Continual.

B.B.L Monday in Red Wire (ung 13th) out Blue Wine 1.15 pm 1.12 pm 1.18 2.04 1,51 2,41 2.21 2.50 2.46 3.12 2.55 3,15 3./8 3.50 3 .. 30 4.07 3.54 4,10 4,48 4.51 16 BB. Lale Dur Blue 8.20 8.53 9.29 9.07 10.85 9,42 10.03 10,30 18.56 11.00 11,03 11, 28 11,16 11,35 11,42 11:15-3 12,03 12.28 12.12 1 . 27 12.33 1 133 21 03 2.01 2 10

B. B. Lal sday 14 th 1906 gut. alue em 2m 2,15 2. 26 R 3.01 2140 3,10 3.14 3,17 3,29 4,02 4,19 4,21 4.34 4,46 8.10 8.17 an 8.24 8,21 8,3 8 ,3 8,54 9102 . 07 . 46 10,10 10,07 0,18 0.15 10127 0120 10129 10 - 39 10,47

1906 Basturday any 18 Man fal robot does weight 10/02 gum 11.44 400 Auc wighs 711 = .32 3-1416 Safe for proposition. Jos 70800 157.08 cm3 1256.648ms 7×4×2 = 56 cm3 Shaft having. 448 8ms. 21040 Estimated ing W 100 x 7.2 x 6.4 = posider 4608 Sprice 2 304 ( 288 432 84,00 4 (2,5 15,500 62.5-154 × 18 + 8 62.5 18 + 8 7.2 6.4 28.8 432 2 46.0 8 93670 2304.

eu3 1200 × 1200 × 1200= 1,728:000,000 1,7.28 letre 12×12 ×12 = 1728 cm3 1728 gus 1.728 Kg 10 1 lite 1000 dens 1.728 likers wyler / Kg. Estimated weeks of a price of lead. 25.5 X 3.5 X 9 = 333 3 lens 3. \$.9.511.5 1665 278:5 382 9.5-m. 1950 1950 1000 3829 1000 200 100 3260 Estrated with of vil stone 20.5 X5 X B angle of moder : 307.5 kms Ston = 684 7.5 317.5 - 76. 1.76=

X4.9 X2.9 = 2 1203. 16.9 x 3.1 x 1.3 = 68.10 cm3 2.39 4767 15717 5107 5 Sm 509.5.9 03 68.107

1906 aig 16 - Aux at Boat House 2127 7 Q., 190 6 : Jug 20 monday ... al Book House Boll 62 am long 4/10 hweight, in holding Not and of Brace 424 gms 115 Bottom and do 125 Turky at Book Rouse 190 6 any 21 Trial of speed of Night Suchling (fastest staring) robusted of motor performance 550 (permin 305) 100)
Water of highlight performance 154 (permin 305)
Time tober actioner tries A & B (308) (290 permin agreed) With Wind 139 seconds Then wind brought her to a stand still Witness on bound the light teckling Reg. 2.a growing, Williams on bound small bout anyus he farm, & Wirth Fred he Lunis. In another boat Wilson Kurddlohum & Roft. Bithund Witnesses on short. Shaya levy & jewtlemen warms unknown. ( hor. Skimm + In Calolwell). Emp 2 Bt C 133 Su. with wind Ct B 186 against wind under shill Dr. Bound. W. Ful Mc Jamis, but Spossen W. Lagraham. W. Bedwin and ay. B. ( hr. M. Juni steard)

179 Mm Roy. Grossen 135 Mr me Lanis 165 M. Injular W. Bidwin 145. 1840 235 839 lbs passengers 1000 lbe fluid 1839 funt + pusseyes Superstand & motor 100,000 kg. 920.00 kg. witnesday Aug 22 MAUZ arthrat House weight of centre frame put intoday Stestance from Station a to Station B 1500 m Enf. | Spier: at 13 = 172 minds eagainst wind. 132 Records. with wind. 2/304 152 funils. Servel 1. 145-Speed 150 meters in 152. Prof were, W. Bedwin W. Lagrater + Al At B 167 Strate Bt A 138 Strack against wend. Enp. 2. with wind . 2 305 Spery 150 meters in 152.5 seconds 1306.3 Summalire

1908 ang 22 - med - on board agly Kareling
3 20 150 1: 152,25: 3 200 Speed   Kilombia in 1015 Alcounts
1015: 3600: 1:2 mod stabled 1st or faither glaving.  1015: 3600 203 720 3.5 Speed 3.54 meters for have 1  1110 1015 1015 1015 1016 1017 1017 1018 1018 1018 1018 1018 1018
hy. 3. Broton attached to beautifund. 153  At B 153 seconds against count 2276  15 to A 123 seconds with went army 138 cents  Popular and 171 roton in 1/2 minute 342 roton for minute.
159 : 1509 :: 138 : X   Kilometin in 920 seconds   327 60     Kilometin in 920 seconds   920 : 3509 :: 1
Esp. 4 motor attacked to second oftening as before
Bt A 120 seems sunt the seems to see the seems to see the seems to see the seems to see the seems to seems to see the
30 p. Sfud. So. 351 hant of So nothing and 38 december of 38 to Some of 38 to Sound of 38 to Sou
92167:360::1:2 Seed 3.9 Klomby In hom.  92167)3(920(3.9)

, , , ,

Hopella makes 131 within 1/2 minute on 262 with for minute

Sup. 6 motor attached by 3 gearing

A. t. B 225 sunt against went

B&A 146 Senier with want

Summation 2371 Amaze 185.5

motor maker 530 with in 1/2 minute or 1060 with for minute

Enf. 5 163 Enf. 6 165.5 2 348.5

1906 any 22 - Wed - at 1818. Hall

Trucks of Experiments with 12/4 Yuchling any 22 1906.

Weight moved atout 1000 Kilograms. Hospeller 2 neckers in direction and at the 22/2.

Experients top .	Jearing .	Kotations per minte		Frime Taken	velous
		motor	Keopeller	150 mitus in Seconds	her how
En 1+2	First gearing	1100	308	152.25	3.547
Euger 3 M	2ª Jeaning	1180	342	138.25	3.906
Euler 5 x 6	3! Gearing	1060	262	174.25	3.099

N. B. Motor was not acting Sakiejactoris in Eggs 5x6 as muching rotations of motor less than in Eags 1,2,3,x4. Think Eggs 5x6 should be repeated. Why not whole deries.

1.906 Thursday Juny 23 In Board ugly Iluckling dia 7. Pully on mola shaft IN glaming 2/2 3 ml " 36 30 Cin 38 38 cm Soad Dr. Bell, Mr. Bedwin, Mr. Sugram Mr. Cox 235 145 171 the 696 4 periments with Skeldin Propellers Motor altached to thrice gearing. Considerable breeze. Posto a B 100 m. BC. 150 m. Experiment 1. A to B 180 seconds against wind B to A 73 seconds with wind Propeller makes 264 votations per minute 32 1/2 min Experiment 2. A to B 241 puends against wind B to A 74 seconds with wind Cropeller makes 264 rotations per minute 132 Dryping rain wind meresungs o 1011 2 268 my 1 11 4 Coperment 3. second Isearing A to 13 160 seconds against wind

B to A 71 seconds with wind

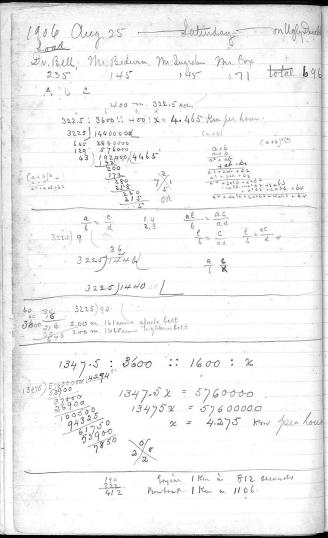
123

742 the way of the second of the second of the second of the second second with the second second second

1906 any 24 Almoston al Bustab Put in stock 1650 Cinty cells Total clibs on Hand thisdali 1650 100 2300 Enty cells 5100 covered cells 400 3100 2/50 74.00 cells 1 rotating slider 25 × 100 cm 12.5 + 100

1906 ang 24 - Fushery - on Ugly Fachley Ugly Justing with steleton properties 2 meters in diameter 22d gearing.

A to B. 100 me Bt C 150m Wind about north very light. Whole course sheltered suffer At B 92 seconds 252 or 16 fe 20 1 th min 1 256 not fe 20 1 fe 20 1 Try Whole course At C (250 m) But 2. A 6 B 8 4 Swends Norpeller 140 11th 1/2 min 280 201 parmin At. C 219 . C t 13 128. CIA. 215 140 wth /2 min 2600 101 /u min 1 At B 84 156 135 At C = 250 m in 219 Mounts CTA = 280 m " 215 Showed Sou m - 434 Aunts BTA - 87 CTB 128 434:3600:500:X 439) 150 299 (4147 Aug sped 4.147 Km. fr. W. 1734 2 17 in Engl 2 . 1734 2 . 202 Out 25 Saturday at 1500 Houses Put in Lank today 4150 gms gadoline 1906



Musday par for my part of sold the 1906 any 28 motor makes, 1280 / 1230 1280 Propelloro 2 50 -... 274 2 5.6 1200 4.144 10.80 1200 10 80 1200 1080 2.900 14000 50040 . 250 396

Downsday on right Duckler, 1906 July 28 on board ugly duckling

And Irrormend my Baldum considering

179

Mr Ingrahm

145

Ottol 644 lbs 185 145 280 1, p, m A to 13 122 3.655 Klometers for he 2)168 2. 84) 369000 (+285.7 1520 3021,p 4.286 Klamitus fui lu: 2/168 (3) 4.286 Khometers for hr. 1500 mp.m 84 me an. time .. (4) 4.286 Kilometer for Mr. 302 1.6

aug. 28th "musday on" Ugly Durchling 1906 2 163 (5) 297 n. p.m 4.417 Relo meters for lu. 835) 360000 (4310 4.310 Kilogram Jui In. 36.0.00 (4090.9 4091 Kilometers for les

1906 aug 29 Wednesday In Bout House motor 980 with Arpelen 286 Aug. 30. ch. Thursday 30.2 cm. Pulley no. 2 (profella ship) 8 " Motor Pulley \$0 )302 |3.77 B getual speeds of motor appellors motor 940 Prop. 284 per mine 284)940 3.30 Slip of bell- amounts to 3.77 - 3,30 = .47

1906 Day 31. Friday at Boal House Tweight of Nort Box finish on Platform 2785 gms 23 15 2 propella shafts at 7465 cach 2930 6 collars 5' 1 4 2 Steleton propellors 221/2° at 1440 5680 18 6 8 4 Bearings & Bolls at 467 11 4 8 4 furning Blocks at 187 2 beams under engine flow Paint-46 30 1906 Sight 3 monday at Boat motor 1050 Propeller 270 mgen 3,77 to 1 arBoat House 3.77 105.000 (2.78 2960 Slip of Belt anto to

1906 Sept- 5wednesday for why therein Skewton peoples 2 m drain 30° at top new belx - our ofeering on Whird gearing a Whind graving of the Start street Start street S Ration of Gearing. 1.5.64 2nd / 3.65 379 - 1:4.58 1: 36ev:: 24 1 × 17 2600 (4235) 179: 3600: 204 1. K 200 in 170

1906 Seft 9th "Inday But wing perfeller TW.B. ash batters form. tafured to 6 . 5 m.m. Seule 20 cms = /m.

Sept'7 cox office 1906 Friday. try 30° propellor Solid on slow sear and 22/2 do do in afternoon Sept 8 Sal on ugly Buckling 1906 26 1906 Oct 94th medicalay.

Post in tank on Ugli, Dockling 16106

Af Gasoline. 190 En 000 10 Sat Weight of Bedom Baldion Complete with and ragellin 422 lb

No0 19 1966 monday BB Lab. s tried Boat model made of two interlocked Propellow 2 mlong 22 1/2 angle Boat lifted itself out of walin to a pont about 30 am from stern on being touch by a string in hands of 3 A.P. In heil running along bank of ginlet at ware house Witnesses W. F. Beding Cape B. B. fal. 7 W. Baldwin 1906 how 20 mesday B.B. Lab. Twied Boat made of two interlocated Propellors 2 mlny 221,0 angle in lat. Pond after the Bells Departure Boat lifted out of water - same as noted in 19th notes - for the first 10 metres and their sottled down in water and would not come up again. I put weight in several diff. Blaces (1000 grams) and the time it was right up in the bow

A put weight in served diff. Places (1000 grams)

and the time it was right up in the bow

bringing the service of grainly 28 cm framed of centre of emple.

Att it seemed to do hear. Though it did not size

any higher it super its higher longer and actel

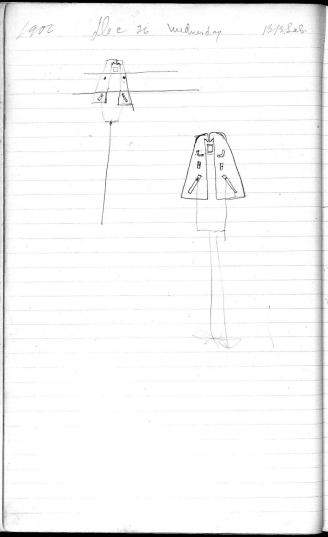
more attackly in make after it settled which is the

often a letter while

M. Predom Lyst. 21866

1906 Dec1. Bulas Saturday Tried model mo 3 out on Bray, seemed to tow much easier than to 1 or ors 2 Laccording to the mans report that was Juning with string) God showed a tendency to ruse and stay up on surface. Though there was of much sea humming to form a good opinion of what it would do, in a column that no weight in her at all Centre of grandy is 36 cm formand of Lab Pond is frozen over 1902 Deg 5 Wednesday BBlas I had an I dea that the winter was bare I as strong as the hand works; as I took af cell from stock of hand made cells and made cells and made a test for the comparison in tenion of the cros strick of each cell with the following results in Hand made elle stood a wight of 57!5" and did not give way of all in madin made cell the stick pulled out of the times with a weight of 2915 gms This cells more picked at random from stock and each broked good

One 5 wednesday 1000 13/3 fub It way I make the expines to suspend sell from com Bar resting on two benches by wire strongh hole in metal corner and hang weight to other end by I wire passed through that corner umker these conditions I consider it Safer to make on cells for Exp Work get machine to do stronger work 1906 Dec 15. Sal. Brisab I made a frame today with Malis mader is similar to are fee boats and rigged up on same the small air could make (212 My) with a of tip, allached direct to motor shaft. took it out on harbon Ice and started motor and the thing started away nicely. I went up and down the harbon a few times with it will proposed made the 100 m run in 21 See actual timing which is at the rate of 17.142 /2 m per hom Ice was pretty rough and our Think this time can be cut in Two or even better with smooth I ce and good gear, think there should be a possibility of trying dread Steering with Something like



1907 . Feb 11 monday 13.13 fab total cells (might) in stouse at 12ile Home today 6250 cells. 1907 Let 23 Sat 1818 Lab in stack \$6250 1907 Mari 9. Sal: B.12. Sab. time Puthing up 2250 cells -8 days 2000 time making tracks for 2250 colls. - 7 " time cutting sticks 2250 cells & 78 days Tim 213 celes to the Dound-After cut. I kay at 500 covers 25 cells 1 yd siese al 45° 52/2° 57/2° covers 6 cells I lb steel at 300 round marker times for 213 weeks the 213 cens sticks In cells cost 40 c Min find lot 25 anon

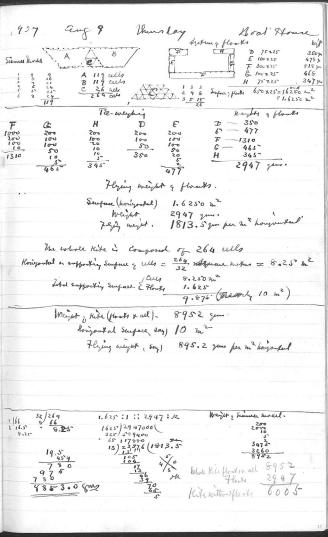
Blab 1907 Man 9 - Sal-Put in Kili House 5.50 celas unged 1850 Lotal singed cells in stage 7200 ABLAL 1907 man 23 Sat 500 unged cells Dut in /Eli House Total unged cells in stock 7700 Rotal Entry cells in stock 6.450 may 20 monday RM Lab 1007 3:00 unjed calls Put in Wile House rotal winged cells in stock 8200 Wold Emity cells in stock 5950 July 2 Wednesday Put in Keli House 2250 winged coll 1907 10450 Total wound cells Total Cuty cells 3700

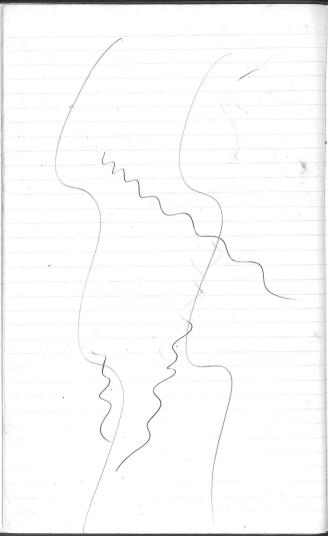
1907 July 13 Sel 5 weight of paper Kill Beaded 15 lbs:

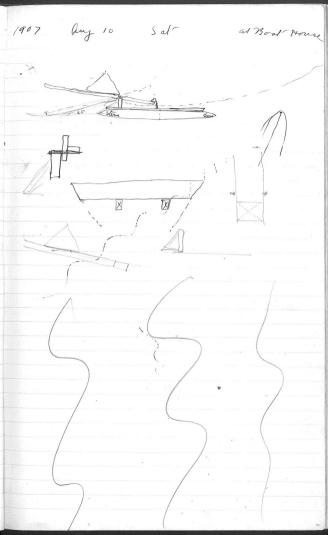
12 floats 7/2 lbs with = 15

Notes weighted with spring Balances Unusday BB Lab 1207 July 25 M Put in Kele House 3350 unged cles Total unged cells in stack /3 500 7350 meight of ? Frame Steering aparatus 15' " I large float 36 30 Iron 3 30 lbs Total

al-Boal House Tuesday any 6 1907 MB Lal. 1907 any 7 Wednesday B13 Fm mette 3 Solid Screws 1.5' - 15' Pach des duplicale above in steleton







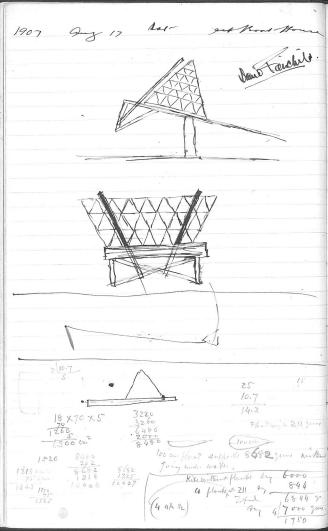
any 12 monday 1907 - Turndry 1207 any 13 ar BH. 1907 aug 14. 183 188 Weight of floats carried by Siamer Today molis Iloats on flying him mest for pleas Kiti on fouldne & chears to both their ages throthing & physics in wearful I some space on James with a though in a stage of the second section of the section of th

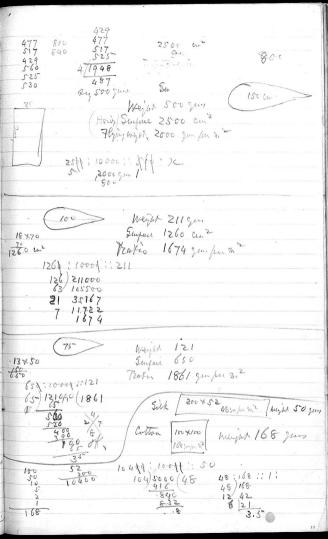
1907 ang 15 Mursday of Boat House flyng line (throat rope weights weights dry 2650 gms

Mrs length 78.75 m. In line was used to fly Siamere thins from Garden Guy 14 /00> ,907 aug 16 Widayal Verall House Ever since becoming interested in the problem of Revieal navigation by being taken into the employ I the a broken thele as sups. I him B. B. Let. I have thought that there would be much difficulty in towing a machine out of the water on even toget a machine topical propelled by its own power To rise from the water - from the fact as is well Known - that the houter one propells any Known Kind of boats the more is tends to depress and hold outs the water att the stem our first Exp this year in altempting to get a Kili to rise from the water by Towny it against the wind with a mater boatsdeveloped another difficulty Viz. The retter imposibility of sleeping the structure derectly behind the Tow boat tiel is got out of the waln which was, I thought because the machine had so much what might be pail area - and so little hold on the waln and on the water and being very light, the wind would blow it around in all directions before is had a chance to jes

July 16 trikay Boat Houn 190 % into the air. now the I dea struck me that of me could got device some means of geting a machine started from of the deck of motor boat that we would over come a great difficulty and save a would otherwise he taken up in experiently with ploats adapted to rise out of the wales. ale, the say of the I dea of starting from a boat was peasable the question of floats would be reduced to a mere nothing. I suggested the I dea to be Bell and he imedately thought mell of it and but raid that we should be able to control machine as a late which mean! that there would have to be another book going out ahead with flying line. in talking the matter over further it was me having the man furning of the such that we might town of the motor town of the motor town. The motor town of the motor town. Which was their me fift up an assurption on the deck of the ugher king thing " see photo the deck of the ugher king the state while on which me could rest the the while towny to proper position, and their by pulling a trigger clavale the front surfaces to a flying angle. this plan we adopted and it has proven very satisfactory The mechanism is very simple and consists of two bars about 4 m. long highed per a point about 1/4 distance from forward and of the balance of bar projecting over

1907 gry 16 Friday of Boat Hour The stern of ugly buckling see shots # 302+303 the Bars are connected together at forward and only, leaving clear space between them all the distance back to the end. The machine is placed on this frame and secured properly and towed out to the mope place and at the right time the trigger can be pulled and pame will rock back llevating front- surfaces of machine and machine prises into the sir on the flying line as a file we have already tried the sparatus in lambing a large Kele and M' works perfectly well. Sug 1400, WPBedein Super Sug 1400, BB Lab





ang 22 Ameday It house 1907 Weight of Selfridge 10,000 gmo

No of cells 320

tolling 32 alls to the me horizontal flying weight = /Ms gus per m Ofligne surface 541:25 320 162375 17320000 cms 1732) 10000 (577.36 13400 12/24 12/60 12/24 Phing weight - 577.36, mo 1.1676

Thursday aug. 22 1907 Bt. lune Sliding machine using all of solls cells to control stability automatically both in transverse as well as fore & aft direction. any thite structure of libratedral cells made in form of a cross of arms a bank or section of the cells at its extremities made callafrible. Then a weight winns an fimbals below the cof g, could control the angle of the foll aprible wings

Thursday Bt. hours aug. 22 1907 11 34 cm & o cm area of @ 22 x 18x9 = 162x22 = 509.1 cm2 7 356 + area of A 34×40 = 1360 cms² total - 1869 cms2 Weight 150 gus 1869 cm2: 1000 cms :: 150 pms: X 1869 156.6000 (700 gus per ma (aff 6.2 52 × 64 17×80 = 1360 22 X17 = 37.4 4,37522 x 26 x 13

Thursday "RI house 1907 au, 22 2377) \$ 550,000 1210 gwo fur m Friday 1907 any 23 at Koot House weight of "The Selfridge"
weight with Balones scales a gran weight. 13330 grams W.T.B. May cells in to Selfider 320, Surper 10 20 horizontal Weight provided with five floods, 13,330 gus. (394 cells 24320) Flying wight counting floats as deed load 1333 you per in houranted. How H Count in flower 1 10 (177) Surfamer House 5 (autor 1 10 (177) Surfamer House 5 (autor 1 17 (177) Statement 1 18 of 177) Lord 15 (178) Lord 15 (178) Lord 15 (178) Lord 178 (178) Lor 40 213 32/ loou 2520 lui Horts 1958 gr. 24210020 and Horizontel Surface , 320 cells 10,0000 cm2 1,0020 003 " " + 5 plants 11) 13380 11 . 0020 m2 Meyer 13,330 gum Sugare 11 m2 Raxin 1212 gumper he horizontal ( about ). Head-pine 40 all bring-pine 296 cells Trit-pine 58 cells 394 wing-piece Dut piùn .

394 alls A 32 wheper m = 12.312 m / Aug 12 m tay 1 2 2 Surface of 5 floats Total bourgeted a supporting Surface fee, 13 an 2 The delfude Kike Weight 13,330 gum Surface 13 m2 Rex's 1025 gue per en horizontal 13) 13 330 (1025) at the time of the second the Farland M. Jareaus estimated that each floor hope congained about " a gall of water which could the hite to take up along 50 lls dead load. HE think that the East loss was Inden by the west of the contained water heaten to the stern as like come out of the water. The water was removed from one flact. \* upon coming had! to the took hours, and wift of but + water = 3218 gm. 29.10 ", my 18 1 = 1481 pms \* Stabbord head flut. 3218 1937

Make was removed from Port head flood 2000 100 in mujung some water was lost homen what was left was maybed, my of maker + feet = 2157 for 2157 : high of moder = 420 grow Examination of Starbond side fact slamsthat it contained he water . Also no water in the Part side feed, No waln in storn floor, (This is all floor which was broken) "T any 24 Pat at News! Home ... weight. of the Selfidge this date" 1907 any 24 Pat 3475 15175

1907 aug 27 Justan - at Knet Honey mylo. 8/17920 3/7572 2 841-0 2 A B C C 2710 (1992) 711 (3) 7575 3250 (1992) 711 (3) 7575 3250 H On monday evening any 26th at fine o'clock the abou floats were placed in the water loaded as shown where. 117415x 2,2 = The weights do not include 119 x 15 x 2, 2 = the weights of the floors 56.5 X 15 X 7. 2 \$8 X15 X2.2 Enday at 2 P.M. all the 350.5 ×15 +2.2 florts seem to be planting high out of the water of what 3-25 P-5 5-25 P-5 21 hours. We will now 105150 examin them to see how much water has halved 5783,25 in during that time and he will distyrate the plants mater & shown above. float book Practically Nowater in any of the 2987 floods everyshing I (marked & 430) 2937 water in which wighs 242 gms 73 2937 2504 2504 deakage in there ploads seems to take a place shiply at the top where the takes 2504 aloops are for attacking the floats to the 5973 o teste and pulaps at the scares. a tale in the hattom would not admit water to any extent with next of the plant was air style. En fact if the T me could be sure that the fleshe would always runain hattom down a just advantage high arise by cutting away a large

postion of the hottom or raking large shalls in the latton as this would seems purfect. arrainage of the flood when in the air. worth while considering making places on the principle of a during hell

Me. Douglas suggests That the hear would be was either to do damage if on the heatom of the float instead on the top

ASB. Diving bell floots worthy consideration.

In fracts made last year the idea was
developed to the extent of learning a permanent
opening in the tail and spen take. As that
if tail was immerced with would not punchent into the floot any more than
water would enter a bulmingul battle with
the rect down that the rest is the floot in
assumption that the rest is the floot is
air tight and what tittle water to recipied
tind drive about escape again
whough the stern take. This was atte
engal of the tube in the Tail of the prient
and water to the in the Tail of the prient
would in a free incision in the batton
of the flood or a protuding open tube in

wednesday Sept-11 1907 Proal Hour 3220 this dale weekend floors 12700 gm 12700 125× SZ + 3.14× 26 Surface, Kith day 12 m2 Surface ; floats by 1. m2 13 22 Weight 15740 Enforce 13 2 Tentro 1211 gam for me horizontal a 10600 13 13740[1210.7 15740 gm Kike to be flown 2000 13 10 3/4 439 130.75 139.75 24 M Weight 34.7 lbs Super 140 49. Ft : That 0.25 the for to pl -

Sept- 16 1907 monday Road House floats 1 1B +1 were Placed in water with a weight of about 16000 grams of lead distributed over the three Floats left there for about 200 hours on examination this morning I find !-Float 1 e hespo wali in it. 1 has no waln in it 1904 left 24 Zundy at Breet House

1907 God-2 Thursday of 754 15° 11/2 meters, at start of Exps. Twin Propeller, Experient, Dexps. Hot Exp. Rit. per min Pull. Eule size 1 900 80 2 994 80 Trumed down in edges - Firmed down oxedys. 3 1060 80, som en flinds. Oct 10 Thursday . of B. # 1907 18 ends 7 s in druly 54 m. 170° L

Oct. 12 - Laturday at BH 1907 W. of Beading. Ridge Beading 170 121.04 gmo for M blocks about 4 jus. Corner Beding 99.01 grus, for m 6.00 " Hocks 105.01 " for m. complete (550) face Beading 75 gus for m. meluding block 54 m 70° L @ 125 gus fur m. 20 m. 55 / @ 105 gus fr m 6750 pmo = 1100 gms. 1/00 135 m. double @ 50 gms. 6750 =6750 gms. 14,600 gus. Bm yester 160 mg. 160

500 blo. dead load 250 each XXXXX. If the centre of surface of the floats the Rute structure as a spanker sail & Keeps the float heading my didated 98.13



heavy lines - double beading - at purations marked & run

1907 Oct 24 Thursday anney weight of sills to come bottom of large floats the of floats 242gms blo. No cover the of floats 2043 446 gms 1907 Oct 15 Ariday amex data sc. Florts 4 floars

flator 7 days 2 men

constant 30 coils wine at 5° c 4 floar-fig

(456 H- slats at 112 covering 22/2/1 do pilk at 5:8 = 4/d \*/2.05"
[Hool sewing siek together 3 hrs at " 18
Outting siek on floats The Treating Sills ... 1820.

1907 tribay 60 is Started work on ugly shooting Oct 18th Oct 18t - 2 men 28 -Scow 4 min & days 25'-3

1907 Nov 8 Friday MM Sal sight float In Islan # 1 120 the for my hours; thesulf ! silk Bogged in hitrary har about to

